

ソースコード

list.java

```
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;
public class list
{
    public static void main(String args[])
    {
        List<student> memberList = new ArrayList<student>();
        memberList.add(new student(401,"古川彩音",45));
        memberList.add(new student(402,"相沢未鈴",100));
        memberList.add(new student(403,"成瀬梨紗",75));
        memberList.add(new student(404,"夢眠瑛美",83));
        memberList.add(new student(405,"藤咲ねむ",64));
        for(int i=0;i<memberList.size();i++)
        {
            System.out.println(memberList.get(i).getNumber() + " " + memberList.get(i).getName() + " " +
                memberList.get(i).getpoint() + "点");
        }
        memberList.sort(new pointComparetor());

        for(int i=0;i<memberList.size();i++)
        {
            System.out.println(i+1 + "位 " + memberList.get(i).getNumber() + " " + memberList.get(i).getName() + " " +
                memberList.get(i).getpoint() + "点");
        }
    }
}
class student
{
    int number;
    String name;
    int point;
    student(int number, String name, int point)
    {
        setNumber(number);
        setName(name);
        setpoint(point);
    }
    public int getNumber() {
        return number;
    }
    public void setNumber(int number) {
        this.number=number;
    }
    public String getName()
    {
        return name;
    }
    public void setName(String name)
    {
        this.name = name;
    }
    public int getpoint()
    {
        return point;
    }
    public void setpoint(int point)
    {
        this.point = point;
    }
}
class pointComparetor implements Comparator<student>
{
    public int compare(student student1, student student2)
    {
        int point1 = student1.getpoint();
        int point2 = student2.getpoint();
        if(point1 > point2)
        {
            return -1;
        }
        else if(point1 == point2)
        {
            return 0;
        }
    }
}
```

```
    }
    else //(point1 < point2)
    {
        return 1;
    }
}
}
```

実行結果

401	古川彩音	45点
402	相沢未鈴	100点
403	成瀬梨紗	75点
404	夢眠瑛美	83点
405	藤咲ねむ	64点
1位	402 相沢未鈴	100点
2位	404 夢眠瑛美	83点
3位	403 成瀬梨紗	75点
4位	405 藤咲ねむ	64点
5位	401 古川彩音	45点